

In the Claims

Claims 1-8. (Canceled)

Claim 9. (Currently amended) ~~An~~ A recombinant enzyme capable of hydrolyzing at least one organophosphate selected from the group consisting of carboxylester organophosphates and dimethyl-oxon organophosphates, wherein the recombinant enzyme being produced by a transformed with a DNA molecule comprising a nucleotide sequence having at least 60% homology with Le α E7, in which the protein encoded by the DNA molecule has at least about 75% sequence identity with SEQ ID NO. 8 and differs from E3 SEQ ID NO. 8 at least in the substitution of Trp at position 251 with an amino acid selected from the group consisting of Leu, Ser, Ala, Ile, Val, Thr, Cys, Met and Gly.

Claims 10-12. (Withdrawn)

Claim 13. (Canceled)

Claim 14. (Currently amended) The recombinant enzyme according to claim 9, wherein said DNA molecule has at least 80% homology with the ~~DNA encoding Le α E7~~ SEQ ID NO. 7.

Claim 15. (Currently amended) The recombinant enzyme according to claim 9, wherein said DNA molecule has at least 95% homology with the ~~DNA encoding Le α E7~~ SEQ ID NO. 7.

Claim 16. (Currently amended) The recombinant enzyme according to claim 9, wherein said DNA molecule has the nucleotide sequence of SEQ ID NO:1, 3, or 5, or a sequence which hybridizes under high stringency conditions to SEQ ID NO. 1, 3 or 5, ~~thereto~~ with the proviso that the ~~protein~~ recombinant enzyme encoded by the DNA

molecule differs from ~~E3~~SEQ ID NO. 8 at least in the substitution of Trp at position 251 with an amino acid selected from the group consisting of Leu, Ser, Ala, Ile, Val, Thr, Cys, Met and Gly.

Claim 17. (Currently amended) The recombinant enzyme according to claim 9, wherein said Trp at position 251 is substituted with Leu or Ser.

Claim 18. (Currently amended) ~~An~~ A recombinant enzyme capable of hydrolyzing at least one organophosphate selected from the group consisting of carboxylester organophosphates and dimethyl-oxon organophosphates, wherein the recombinant ~~the enzyme being produced by a cell transformed with a DNA molecule encoding a polypeptide having~~ has the amino acid sequence of RM-8Con shown in Fig. ~~4~~SEQ ID NO. 10 or the amino acid sequence of MdxE7 shown in Fig. ~~3~~SEQ ID NO. 13 in which Trp at position 251 is replaced with Ser.

Claims 19-29. (Withdrawn)